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JOINT PHOTOGRAPHIC INTELLIGENCE BRIEF

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NAVY - CIA

SUBJECT : Analysis of Submarine #45
LOCATION: Leningrad, USSR

BRIEF NO.: JB-9-59
DATE : 2 March 1959

REFERENCES:

1. Navy, Moscow. 91-S-58, 5 May 58, Encl. (1), Photo #6. (S)
2. Navy, PIC. NT-PX000398, Nov 57. (TSC)

REQUIREMENT SI/R-39/58: Determine pertinent dimensions and observable features of submarine #45 on photo #6, enclosure (1) of the referenced Naval Attache Report 1/ so as to determine whether or not:

- (1) Submarine #45 is similar to or different from those of the W-class
- (2) The submarines identified as "probable W-class" or "possible W-class" in NT-PX000398 2/ could be of the same type as submarine #45.

REMARKS:

Submarine #45, at Leningrad Shipyard Sudomekh 196 (see Figure 1, page 2) has the following dimensions.

Over-all length:	195 feet	25X1D
Bow to leading edge of conning tower:	██████████	25X1D
Length of conning tower:	██████████	
Height of conning tower:	██████████	25X1D
Trailing edge of conning tower to stern:	██████████	

The following characteristics of submarine #45 differentiate it from those of the W-class.

- (1) The visible hull line appears to have a different configuration.
- (2) The leading edge of the stem is raked like that of the Z-class, whereas the stem of the W-class is vertical
- (3) The forward arrangement of the flooding ports differs.

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- (4) The line of flooding ports does not extend as far aft as on the W-class.
- (5) The conning tower is smoothly faired, without steps or protrubances.
- (6) The conning tower appears farther aft than on the W-class.



Fig. 1 Submarine #45, Leningrad Shipyard Sudomekh 196.

All of the submarines in the Murmansk/Polyarnyy areas which were classified as "probable W-class" or "possible W-class" in the referenced report 2/ were checked to determine whether or not they could be of the same type as submarine #45. The over-all length and the configuration of each of those designated as "probable W-class" have been reasonably well established, and they differ from those of submarine #45. The over-all length of each of those designated as "possible W-class" has been approximated, and appears to exceed the over-all length of submarine #45.

As a result of this analysis it is concluded that:

- (1) The dimensions and configuration of submarine #45 indicate it is not of the W-class
- (2) The submarines in the Murmansk/Polyarnyy areas previously reported as "probable W-class" or "possible W-class" appear too long to be considered the same type as submarine #45.